# **Automatic Differentiation**

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## **Logistic Regression**

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## **Historical Perspective**

 $\bullet \ \, https://www.youtube.com/watch?v{=}Suevq-kZdIw$ 

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- $\bullet \ \, https://www.youtube.com/watch?v=Suevq-kZdIw$
- https://www.youtube.com/watch?v=yRUUDJfDarU

## Paradigm change demo (Tensorflow playground)

## Major success of ReLU (Tensorflow playground)

#### **Perceptron Notebook**

#### XOR forward propagation, ReLU